BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Construction of RCC Drain at Uttanalappa Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.**

							Estimate Cost:	1500000.00	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17**	Cum							
	Uttanallappa Layout		2	106.00	1.00	0.95	201.40		
	Basic Rate	82.00					**201.40**	208.93	**42078.00**
	AD-HOC @ 11% of PWD SR 2016-17	9.02							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		197.10							
	Area Weightage @ 6%	11.83							
	Total	**208.93**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17**	Cum							
			2	106.00	1.00	0.15	31.80		
	Basic Rate	4867.00					**31.80**	5726.51	**182103.00**
	AD-HOC @ 11% of PWD SR 2016-17	535.37							
	Sub Total	**5402.37**							
	Area Weightage @ 6%	324.14							
	Total	**5726.51**							
3	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2016-17**	Cum							
a	Drain Bottom Concrete		2	106.00	0.90	0.15	28.62		
	Side Wall		4	106.00	0.15	0.60	38.16		
	Basic Rate	5879.00					**66.78**	6917.23	**461933.00**
	AD-HOC @ 11% of PWD SR 2016-17	646.69							
	Sub Total	**6525.69**							
	Area Weightage @ 6%	391.54							
	Total	**6917.23**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2016-17**	Tonne							
	For @ 60 Kg / Cum		0.06	66.78			**4.01**	71310.20	**285726.00**
	Basic Rate	60607.00							
	AD-HOC @ 11% of PWD SR 2016-17	6666.77							
	Sub Total	**67273.77**							
	Area Weightage @ 6%	4036.43							
	Total	**71310.20**							
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2016-17**	Sqm							
	Side Wall		4x2	106.00		0.60	508.80		
	Basic Rate	293.00					**508.80**	344.74	**175406.00**
	AD-HOC @ 11% of PWD SR 2016-17	32.23							
	Sub Total	**325.23**							
	Area Weightage @ 6%	19.51							
	Total	**344.74**							
6	Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	For Covering Slab		2	106.00		0.90	190.80		
							190.80	1760.00	**335808.00**
	Sub Total								**1483054.00**
	For Third Part QC inspection Charges @ 1%								**14831.00**
	Miscellaneous and other Charges	L/S							**2115.00**
								Total	**1500000.00**
	Rupees Fifteen Lakh(s) Only								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2017-18 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

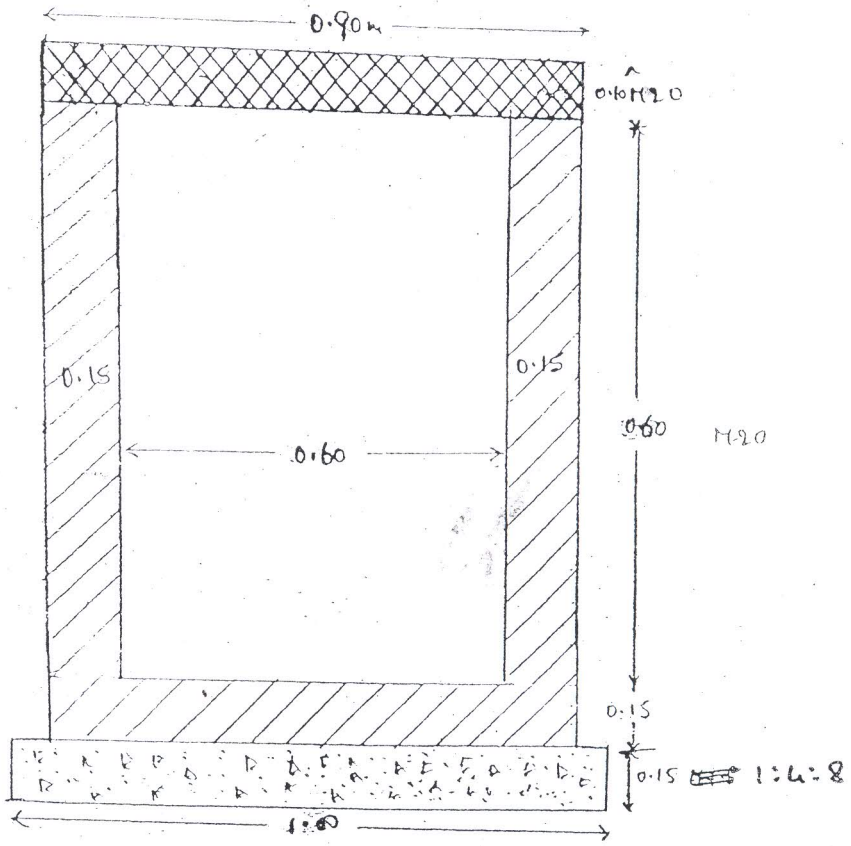
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For .....
Head of A/C.....
CER NO :..... Dt:...

TECHNICAL SANCTION
Accorded For Rs. Fifteen lakhs only
Head of A/C. P-1771
Div. Ref. No. 111 Date 17/02/18
AE
EE(BTP)

TA
ICE (YNK)



CROSS SECTION OF CC DRAIN

AE